

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 039153-0457 (G1162)	SERIAL NO. 09/994,395
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		APPLICANT Lopatin et al.	
		FILING DATE 11/26/2001	GROUP ART UNIT 2811

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AM		6,534,865	03/18/2003	Lopatin et al.	257	751	
AM		6,521,532	02/18/2003	Cunningham	438	687	
AM		6,482,740	11/19/2002	Soininen et al.	438	686	
AM		6,461,675	10/08/2002	Paranjpe et al.	427	250	
AM		6,426,289	07/30/2002	Farrar	438	670	
AM		6,420,262	07/16/2002	Farrar	438	652	
AM		6,410,383	06/25/2002	Ma	438	247	
AM		6,365,502	04/02/2002	Paranjpe et al.	438	622	
AM		6,344,413	02/05/2002	Zurcher et al.	438	678	
AM		6,297,146	10/02/2001	Lopatin	438	625	
AM		6,294,836	09/25/2001	Paranjpe et al.	257	767	
AM		6,268,291	07/31/2001	Andricacos et al.	438	694	
AM		6,225,221	05/01/2001	Ho et al.	438	678	
AM		6,180,522	01/30/2001	Hong	438	659	
AM		6,156,638	12/05/2000	Agarwal et al.	438	627	
AM		6,117,770	09/12/2000	Pramanick et al.	438	659	

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AM		Dong Joon Kim et al, "New Method to Prepare W-B*-N Ternary Barrier to Cu diffusion by Implanting BF ₂ ⁺ Ions Into W-N Thin Film," J. Vac. Sci. Technol. B 17(4), July/Aug, 1999, pp. 1598-1601.
AM		W. F. McArthur et al., "Structural and Electrical Characterization of Si-Implanted Tin as a Diffusion Barrier for Cu Metallization," Mat. Res. Soc. Symp. Proc. Vol. 391, 1995, pp. 327-332.
AM		PCT International search Report, International Application No. PCT/US 02/32554, International Filing Date 11/10/2002 (5 pages).

EXAMINER

Thomas Magee

DATE CONSIDERED

9/7/03

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Form PTO-1449

(MODIFIED)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

039153-0457 (G1162)

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INFORMATION DISCLOSURE CITATION

APPLICANT

Lopatin et al.

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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AM		6,096,648	08/01/2000	Lopatin et al.	438	687	
AM		6,069,068	05/30/2000	Rathore et al.	438	628	
AM		6,015,749	01/18/2000	Liu et al.	438	628	
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AM		2002/0137332	09/26/2002	Paranjpe et al.	438	637	
AM		2002/0115292	08/22/2002	Andricacos et al.	438	687	
AM		2002/0109233	08/15/2002	Farrar	257	762	
AM		2002/0102838	08/01/2002	Paranjpe et al.	438	622	
AM		2002/0084529	07/04/2002	Dubin et al.	257	774	
AM		2002/0053741	05/09/2002	Iwasaki et al.	257	762	
AM		2002/0036309	03/28/2002	Sekiguchi et al.	257	301	

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	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: June 24, 2003

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1 of 1

Complete if Known

Application Number	09/994,395
Filing Date	11/26/2001
First Named Inventor	Sergey D. Lopatin
Group Art Unit	2811
Examiner Name	Magee, Thomas J.
Attorney Docket Number	039153-0457 (G1162)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	6,242,808		Shimizu et al.	06/05/01	
	A2	6,090,710		Andricacos et al.	07/18/00	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A3		EP 1 094 515 A2		EPO	04/25/01		
	A4		EP 1 039 531 A2		EPO	09/27/00		
	A5		EP 1 039 531 A3		EPO	12/20/00		
	A6		EP 0 567 867 A2		EPO	11/03/93		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A7	U.S. Patent Application Publication No. US2001/0035237 A1, Inventors Nagano et al., Publication Date 11/01/2001 (4 pages).	
	A8	PCT International Search Report, International Application No. PCT/US 02/32605, International Filing Date 11/10/2002 (7 pages).	

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